SIEMENS

Data sheet 3RT1066-6AM36



CONTACTOR, 160KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 200-220V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S10 BAR CONNECTIONS CONVENT. OPERATING MECHANISM SCREW TERMINAL

Figure similar

product brand name	SIRIUS
Product designation	power contactor

General technical data:	
Size of contactor	S10
Insulation voltage	
Rated value	1 000 V
Surge voltage resistance Rated value	8 kV
Protection class IP	
• on the front	IP00
• of the terminal	IP00
Degree of pollution	3
Mechanical service life (switching cycles)	
 of the contactor typical 	10 000 000
 of the contactor with added electronics- 	5 000 000
compatible auxiliary switch block typical	
 of the contactor with added auxiliary switch 	10 000 000
block typical	

Ambient conditions:	
Installation altitude at height above sea level	2 000 m
maximum	
Ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C

Main circuit:	
Number of NO contacts for main contacts	3

Number of NO contests for main contests	0
Number of NC contacts for main contacts	0
Operating current	
• at AC-1 at 400 V	220 A
— at ambient temperature 40 °C Rated value	330 A
• at AC-1 up to 690 V	220 A
— at ambient temperature 40 °C Rated value	330 A
— at ambient temperature 60 °C Rated value	300 A
• at AC-3	000 4
— at 400 V Rated value	300 A
— at 690 V Rated value	280 A
Connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible	185 mm²
• at 40 °C minimum permissible	185 mm²
Operating current for ≥ 200000 operating cycles at	
AC-4	
• at 400 V Rated value	125 A
• at 690 V Rated value	115 A
Operating current	
with 1 current path at DC-1	
— at 24 V Rated value	300 A
— at 110 V Rated value	33 A
with 2 current paths in series at DC-1	
— at 24 V Rated value	300 A
— at 110 V Rated value	300 A
with 3 current paths in series at DC-1	
— at 24 V Rated value	300 A
— at 110 V Rated value	300 A
Operating current	
with 1 current path at DC-3 at DC-5	
— at 24 V Rated value	300 A
— at 110 V Rated value	3 A
• with 2 current paths in series at DC-3 at DC-5	
— at 110 V Rated value	300 A
— at 24 V Rated value	300 A
• with 3 current paths in series at DC-3 at DC-5	
— at 110 V Rated value	300 A
— at 24 V Rated value	300 A
Operating power	
• at AC-1	
— at 230 V at 60 °C Rated value	113 kW

— at 690 V Rated value	340 kW
— at 690 V at 60 °C Rated value	340 kW
• at AC-2 at 400 V Rated value	171 kW
• at AC-3	
— at 230 V Rated value	97 kW
— at 400 V Rated value	171 kW
— at 500 V Rated value	215 kW
— at 690 V Rated value	280 kW
Operating power for ≥ 200000 operating cycles at AC-4	
• at 400 V Rated value	71 kW
• at 690 V Rated value	112 kW
Thermal short-time current restricted to 10 s	2 400 A
Active power loss at AC-3 at 400 V for rated value of	22 W
the operating current per conductor	
No-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
Operating frequency	
• at AC-1 maximum	750 1/h
• at AC-2 maximum	250 1/h
• at AC-3 maximum	500 1/h
● at AC-4 maximum	130 1/h
Control circuit/ Control:	
Type of voltage of the central supply voltage	AC/DC

Control circuit/ Control:	
Type of voltage of the control supply voltage	AC/DC
Control supply voltage at AC	
● at 50 Hz Rated value	200 220 V
● at 60 Hz Rated value	200 220 V
Control supply voltage at DC	
Rated value	200 220 V
Rated value	40 Hz
Control supply voltage frequency 2 Rated value	60 Hz
Operating range factor control supply voltage rated value of the magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
Operating range factor control supply voltage rated value of the magnet coil at DC	0.8 1.1
Design of the surge suppressor	with varistor
Apparent pick-up power of the magnet coil at AC	590 V·A
Inductive power factor with closing power of the coil	0.9
Apparent holding power of the magnet coil at AC	6.7 V·A

Inductive power factor with the holding power of the coil	0.9
Closing power of the magnet coil at DC	650 W
Holding power of the magnet coil for DC	7.4 W
Closing delay	
• at AC	30 95 ms
• at DC	30 95 ms
Opening delay	
• at AC	40 80 ms
• at DC	40 80 ms
Arcing time	10 15 ms
Auxiliary circuit:	
Number of NC contacts	
• for auxiliary contacts	
— instantaneous contact	2
Number of NO contacts	
• for auxiliary contacts	
instantaneous contact	2
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
• at 230 V Rated value	6 A
● at 400 V Rated value	3 A
Operating current at DC-12	
● at 60 V Rated value	6 A
● at 110 V Rated value	3 A
• at 220 V Rated value	1 A
Operating current at DC-13	
● at 24 V Rated value	10 A
• at 60 V Rated value	2 A
• at 110 V Rated value	1 A
• at 220 V Rated value	0.3 A
UL/CSA ratings:	
Contact rating of the auxiliary contacts acc. to UL	A600 / Q600
Short-circuit:	
Design of the fuse link	
• for short-circuit protection of the main circuit	
— with type of assignment 1 required	fuse gL/gG: 500 A
— with type of assignment 2 required	fuse gL/gG: 400 A
 for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 10 A
Installation/ mounting/ dimensions:	

Mounting type	screw fixing
Side-by-side mounting	Yes
Height	210 mm
Width	145 mm
Depth	202 mm
Required spacing	
for grounded parts	
— at the side	10 mm

Connections/ Terminals:	
Type of electrical connection	
• for main current circuit	screw-type terminals
 for auxiliary and control current circuit 	screw-type terminals
Type of connectable conductor cross-section	
 for AWG conductors for main contacts 	2/0 500 kcmil
Type of connectable conductor cross-section	
 for auxiliary contacts 	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14), 1x 12

Certificates/ approvals:

General Product Approval

Functional Safety/Safety of Machinery Declaration of Conformity









Baumusterbescheini gung



Test Certificates

Shipping Approval

spezielle
Prüfbescheinigunge
n

Typprüfbescheinigu ng/Werkszeugnis









other

Umweltbestätigung

Bestätigungen

sonstig

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

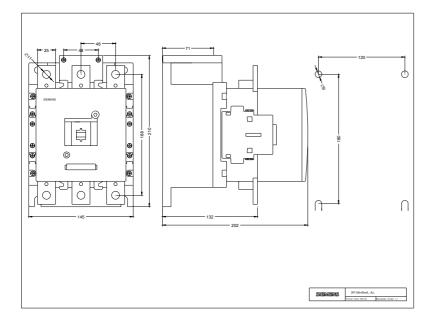
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10666AM36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT10666AM36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT10666AM36&lang=en





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